Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

ESPRIMO P2520 / P2420
Your instantly available economy PC

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Fujitsu Siemens Computers presents its basic cost-effective professional PC. The Value Line ESPRIMO – a basic professional PC is aimed towards the price-conscious professional buyer. It is only available for channel business.

The Intel based ESPRIMO P2520 and the AMD based ESPRIMO P2420 are professional PC for all office applications.

- High performance with NVIDIA chipset
- Wide range of processor performance up to Intel Core 2 Duo and AMD Athlon 64 X2
- Direct X9 onboard graphics to support Microsoft Windows VISTA
- Possibility of graphics expansion with a PCIe x16 slot
- High quality and function stability
-
- High Speed Networking with Gigabit LAN
- Convenient front access to USB and audio
- Excellent performance with Serial ATA 2 (3GBit) hard disk drives and Serial ATA optical drives

Windows Vista Business

Chassis detail

	P2520	P2420
Mainboard		
Chipset	NVIDIA® GeForce® 7050 / nForce® 620i	NVIDIA® GeForce® 7025 / nForce® 630a
Mainboard Number	D2740	D2730
Mainboard form factor	reduced µBTX	reduced µBTX
Processor socket	LGA 775	AM2+
Front side bus resp. system bus support	1066 MHz	HT1
BIOS version	Phoenix	Phoenix
Flash EPROM BIOS update by software	x	x
Recovery BIOS	x	x
Processor		
Intel® Celeron 430 (1.8GHz)		
Front side bus (FSB)	800MHz	
Second level cache	512 KB	
Intel® Pentium™ Dual Core E2140 (1.6GHz)		
Front side bus (FSB)	800MHz	
Second level cache	1 MB	
Intel® Core™2 Duo E4500 (2.2GHz)		
Front side bus (FSB)	800MHz	
Second level cache	2 MB	
AMD Athlon™ LE-1600 (2.2GHz)		
Processor Side Bus (PSB)		HT 2000
Second level cache		1 MB
AMD Athlon™ 64 X2 5000+ (2.6GHz)		
Processor Side Bus (PSB)		HT 2000
Second level cache		1 MB
AMD Athlon™ 64 X2 5200+ (2.7GHz)		
Processor Side Bus (PSB)		HT 2000
Second level cache		1 MB
Memory		
Memory support	533/667/800 MHz	533/667/800 MHz
DIMM slots	2	2
dual channel support	-	x
Max. capacity DDR2	4GB	4GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same	4GB address space thereof, max. 3.0GB usable for physical main memory	4GB address space thereof, max. 3.0GB usable for physical main memory
Interfaces		
Mouse/keyboard (PS2)	-/-	-/-
Serial (9pi, 16 byte FIFO, 16550 compatible)	x	x
Second serial port	-	-
Parallel (25pin with EPP and ECP)	-	-
Display (15 pin, VGA)	x	x
DVI	-	-
Micro (mono) rear	x	x
Line in (stereo) rear	x	x
Line out (stereo) rear	x	x
Micro (mono) front	x	x
Headphone in front	x	x
LAN RJ45	x	x
Universal Serial Bus (USB 2.0) in total	8	8
therefore USB rear	6	6
USB front	2	2
USB internal	-	-
Input device/components		
Optical USB wheel mouse	x	x
Optical USB/PS2 Tilt wheel mouse	-	-
LAN on board		
10/100/1000 MBit/s	Realtek Phy	Realtek Phy
Wake up on LAN (WOL)	x	x
PXE	x	x
BootP	-	-
Audio on board		
Internal speaker supports audio playback	no, buzzer only	no, buzzer only
High definition audio	Realtek ALC262	Realtek ALC262
I/O controller onboard		
Serial ATA	3	3
Serial ATA II / 3GBit	x/x	x/x
Drive bays	4	3
internal 3,5''	1	1
external 3,5''	1	1
external 5,25''	2	2
Floppy disk drive 1.44 MB standard	optional	optional
Hard disk drives		
Serial ATA II 80 / 160 / 250 / 500 GB	x/x/x/-	x/x/x/-
Optical drives (SATA)		
16/48-speed DVD ROM	optional	optional
DVD SuperMulti writer double layer support	optional	optional
Slots		
PCI	2	2
PCI Express x16	1	1
PCI Express x1	-	-
Graphic on board	NVIDIA® GeForce® 7050	NVIDIA® GeForce® 7025
Framebuffer Size (UMA)*		
depending on system memory size:		

up to 512MB	Up to 32 MB (dedicated)	Up to 32 MB (dedicated)
up to 1GB	Up to 128 MB (dedicated)	Up to 128 MB (dedicated)
over 1GB	Up to 256 MB (dedicated)	Up to 256 MB (dedicated)
iGPU	DX9	DX9
Resolution (color depth up to 32 Bit/pixel)		
1024 x 768 (recommended)	85 Hz	85 Hz
1280 x 1024 (recommended)	85 Hz	85 Hz
1600 x 1200 (recommended)	85 Hz	85 Hz
1440 x 900 widescreen TFT (VGA / DVI)	x / -	x / -
1680 x 1050 widescreen TFT (VGA / DVI)	x / -	x / -
1920 x 1200 widescreen TFT (VGA / DVI)	x / -	x / -
* depending on OS/driver/system memory size, additional shared memory might be available as frame buffer		
Graphic add on cards		
NVIDIA GeForce 8400 256 MB, LP (DirectX 10)	-	-
NVIDIA GeForce FX 7300LE 128MB (DirectX 9)	optional	optional
NVIDIA GeForce FX 7300LE 256MB (DirectX 9)	optional	optional
DVI adapter incl. Dual Monitoring (DVI/VGA)	-	-
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	-	-
Electrical values		
Rated voltage range, AC	200 - 240 V	200 - 240 V
Rated frequency range	50-60 Hz	50-60 Hz
Max. output of power supply	300 W	300 W
Monitor outlet	no	no
Power consumption for standard configuration (W)		
Maximum (S0, running app. CD in use)	86 W	103 W
Average (S0, running OS, Idle mode)	55 W	49 W
Stand by (S3, energy saving modus)	5,3 W	4,8 W
Minimum (ACPI status S5, soft off)	4,2 W	4,7 W
Noise for standard configuration		
A weighted sound **power level Lwad** (in B) / Workplace related A-weighted sound **pressure level LpAm** (in dB(A)), (bystander position) (ISO9296)		
Operation mode 1: ODD load	4,5B / 31dB	4,5B / 31dB
Operation mode 2: HDD load	4,6B / 31dB	4,6B / 31dB
Operation mode 3: CPU 90% load	4,5B / 30dB	4,5B / 30dB
Operation mode 4: High load	4,6B / 31dB	4,6B / 31dB
Operation mode 5: Office applications	4,6B /31dB	4,6B /31dB
Idle mode	4,5B / 30dB	4,5B / 30dB
Ambient temperature (IEC 721)	15°C'- 35°C	15°C'- 35°C
Dimensions (H x W x D)	372 x 202 x 376 mm	372 x 202 x 376 mm
Operating position (vertical/horizontal)	x /-	x /-
Weight (depending on config)	approx. 11 kg	approx. 11 kg
Approvals and standards		
CE certification according to EU Directives 89/336/EEC (EMC) and 06/95/EC (Product safety)	x	x
Ergonomics ISO9241 (GS mark)	x	x
Product safety IEC60950, EN60950,	x	x
Electromagn. compatibility EN55022/B, EN55024, EN61000-3-2/3	x	x
Environmental compatibility		
RoHS (Restriction of hazardous substances)	x	x
WEEE (Waste electrical and electronical equipment)	x	x
Energy Star	-	-
Blue Angel	-	-
Nordic Swan	-	-
Software (compatibility / preinstalled)		
Microsoft Windows 2000	- / -	- / -
Microsoft Windows XP Home	x / -	x / -
Microsoft Windows XP Professional	x / optional	x / optional
Microsoft Windows XP Professional x64 Edition	- / -	- / -
Microsoft Windows Vista® 32bit	x / optional	x / optional
Microsoft Windows Vista® 64bit	- / -	- / -
Microsoft Windows Vista® Basic Logo (min. 512MB RAM necessary)	x	x
Microsoft Windows Vista® Premium Logo (min. 1GB RAM necessary)	x	x
Linux certified	-	-
Additional Software		
Recovery DVD (Microsoft Windows XP / Vista)	optional / optional	optional / optional
Drivers and Utility DVD (DUDVD) (Microsoft Windows XP / Vista)	x / optional	x / optional
Others		
Spare part availability	3 years	3 years
Compatibility (references)		
Microsoft Operating Systems (HCT / HCL entry)	x	x
Manageability		
DeskView 10.x client management including:		
On/Offline remote client management	-	-
Detailed system inventory management and reports	-	-
BIOS Management	-	-

Remote power management	-	-
System notifications	-	-
Advanced alerts (ASF implementation)	-	-
Security Remote Control	-	-
DeskView Helpdesk Integration	-	-
DeskUpdate Driver management	-	-
DeskView Migrate	optional	optional
DeskView Control	optional	optional
PXE 2.1 Boot code	x	x
BootP Boot Code including Bootmanage Administrator Software	-	-
Wake up from S5 (off mode)	x	x
Intrusion switch	-	-
Security		
Physical Security implemented in the cabinet		
Prepared for Kensington lock, eye for padlock	x	x
Integrated cabinet lock	-	-
System Security		
Boot sector virus protection	-	-
Write protect option for the Flash EPROM	-	-
Embedded security (TPM1.2)	-	-
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	-	-
Control of external interfaces	x	x
User Security		
User and supervisor BIOS password	x	x
SystemLock BIOS SmartCard Security	-	-
SystemLock 2 BIOS SmartCard Security	-	-
Hard disk password	-	-
Access protection via external SmartCard reader	optional	optional
Access protection via internal SmartCard reader	-	-
Fujitsu Siemens Computers MEMORYBIRD BIOS lock	-	-
Serviceability		
FlexySlot	-	-
EasyFix	-	-
EasyChange (for HDD / for optical drives)	-	-
EasyPull	-	-
Packaging information		
Dimension outside (H x W x D) in mm	500x290x540	500x290x540
Max. quantity/ pallet	24	24
Material/ weight in g		
Carton	1270g	1270g
EPS / PS	210g	214g
PE	appr. 60g	appr. 60g
printed user documentation is bleached in chlorine free process		

Recycling information/ End of life service information
product is designed for easy recyclability
information about take back and recycling you can find here
http://www.fujitsu-siemens.com/recycling
information about environmental initiatives, policies, programs and goals can be found here
http://www.fujitsu-siemens.com/aboutus
Product material information
For all restricted substances see the Environmental guideline FSC03230
The data reflects laboratory performance only. The customer configuration may perform differently, depending on the software, components and peripherals connected.

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